## Model and Migrate Definition:

**Users:**

```php
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\DB;
use Illuminate\Support\Facades\Schema;

class CreateUsersTable extends Migration
{
    /**
     * Run the migrations.
     *
     * @return void
     */
    public function up()
    {
        Schema::create('users', function (Blueprint $table) {
            $table->id();
            $table->string('name');
            $table->string('email')->unique();
            $table->timestamp('email_verified_at')->nullable();
            $table->string('password');
            $table->integer('usertype');
            $table->rememberToken();
            $table->timestamps();
        });


    }

    /**
     * Reverse the migrations.
     *
     * @return void
     */
    public function down()
    {
        Schema::dropIfExists('users');
    }
}
```

```php
<?php

namespace App\Models;

use Illuminate\Contracts\Auth\MustVerifyEmail;
use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Foundation\Auth\User as Authenticatable;
use Illuminate\Notifications\Notifiable;
use Laravel\Sanctum\HasApiTokens;

class User extends Authenticatable
{
    use HasApiTokens, HasFactory, Notifiable;

    /**
     * The attributes that are mass assignable.
     *
     * @var string[]
     */
    protected $fillable = [
        'name',
        'email',
        'password',
    ];

    /**
     * The attributes that should be hidden for serialization.
     *
     * @var array
     */
    protected $hidden = [
        'password',
        'remember_token',
    ];

    /**
     * The attributes that should be cast.
     *
     * @var array
     */
    protected $casts = [
        'email_verified_at' => 'datetime',
    ];
}
```

**Posts:**

```php
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\DB;
use Illuminate\Support\Facades\Schema;

class CreatePostsTable extends Migration
{
    /**
     * Run the migrations.
     *
     * @return void
     */
    public function up()
    {
        Schema::create('posts', function (Blueprint $table) {
            $table->id();
            $table->string('title');
            $table->text('content');
            $table->Integer('userid');
            $table->timestamp('created_at')-
>default(DB::raw('CURRENT_TIMESTAMP'));
            $table->timestamp('update_at')->nullable();
        });


    }

    /**
     * Reverse the migrations.
     *
     * @return void
     */
    public function down()
    {
        Schema::dropIfExists('posts');
    }
}
```

```php
<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class Posts extends Model
{
    use HasFactory;
    public $timestamps = false;

    public function user()
    {
        return $this->hasOne(User::class);
    }

}
```

**PostViews:**

```php
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\DB;
use Illuminate\Support\Facades\Schema;

class CreatePostsViewsTable extends Migration
{
    /**
     * Run the migrations.
     *
     * @return void
     */
    public function up()
    {
        Schema::create('posts_views', function (Blueprint $table) {
            $table->id();
            $table->integer('id_post')->unsigned();
            $table->integer('userid')->unsigned();
            $table->timestamp('created_at')-
>default(DB::raw('CURRENT_TIMESTAMP'));
            $table->timestamp('updated_at')->nullable();
```

```php
            //$table->foreign('userid')->references('id')->on('users');
            //$table->foreign('id_post')->references('id')->on('posts');
        });



    }

    /**
     * Reverse the migrations.
     *
     * @return void
     */
    public function down()
    {
        Schema::dropIfExists('posts_views');
    }
}
```

```php
<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class PostsViews extends Model
{
    use HasFactory;

    public function user()
    {
        return $this->hasOne(User::class);
    }

    public function post()
    {
        return $this->hasOne(Posts::class);
    }
}
```

**Posts Comments:**

```php
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\DB;
use Illuminate\Support\Facades\Schema;

class CreateCommentsPostsTable extends Migration
{
    /**
     * Run the migrations.
     *
     * @return void
     */
    public function up()
    {
        Schema::create('comments_posts', function (Blueprint $table) {
            $table->id();
            $table->integer('id_post')->unsigned();
            $table->text('descripcion');
            $table->integer('userid')->unsigned();
            $table->timestamp('created_at')-
>default(DB::raw('CURRENT_TIMESTAMP'));
            $table->timestamp('update_at')->nullable();

            //$table->foreign('userid')->references('id')->on('users');
            // $table->foreign('id_post')->references('id')->on('posts');
        });
    }

    /**
     * Reverse the migrations.
     *
     * @return void
     */
    public function down()
    {
        Schema::dropIfExists('comments_posts');
    }
}
```

```php
<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class CommentsPost extends Model
{
    use HasFactory;
    public $timestamps = false;

    public function user()
    {
        return $this->hasOne(User::class);
    }

    public function post()
    {
        return $this->hasOne(Posts::class);
    }
}
```

**Factories:**

**Posts:**

```php
<?php

namespace Database\Factories;

use App\Models\Posts;
use App\Models\User;
use Illuminate\Database\Eloquent\Factories\Factory;

class PostsFactory extends Factory
{
    /**
     * The name of the factory's corresponding model.
     *
     * @var string
     */
```

```php
        protected $model = Posts::class;

    /**
     * Define the model's default state.
     *
     * @return array
     */
    public function definition()
    {
        return [
            'title' => $this->faker->sentence(),
            'content' => $this->faker->paragraph(),
            'userid' =>$this->faker->randomElement(User::all())
        ];
    }
}
```

**PostsView:**

```php
<?php

namespace Database\Factories;

use App\Models\Posts;
use App\Models\PostsViews;
use App\Models\User;
use Illuminate\Database\Eloquent\Factories\Factory;

class PostsViewsFactory extends Factory
{
    /**
     * The name of the factory's corresponding model.
     *
     * @var string
     */
    protected $model = PostsViews::class;

    /**
     * Define the model's default state.
     *
     * @return array
     */
    public function definition()
    {
```

```php
        return [
            'id_post' => $this->faker->randomElement(Posts::all()),
            'userid' => $this->faker->randomElement(User::all())
        ];
    }
}
```

**Posts Comments:**

```php
<?php

namespace Database\Factories;

use App\Models\CommentsPost;
use App\Models\Posts;
use App\Models\User;
use Illuminate\Database\Eloquent\Factories\Factory;

class CommentsPostFactory extends Factory
{
    /**
     * The name of the factory's corresponding model.
     *
     * @var string
     */
    protected $model = CommentsPost::class;

    /**
     * Define the model's default state.
     *
     * @return array
     */
    public function definition()
    {

        return [
            'id_post' => $this->faker->randomElement(Posts::all()),
            'descripcion' => $this->faker->paragraph(),
            'userid' => $this->faker->randomElement(User::all())
        ];
    }
}
```

**User:**

```php
<?php

namespace Database\Factories;

use App\Models\User;
use Illuminate\Database\Eloquent\Factories\Factory;
use Illuminate\Support\Str;

class UserFactory extends Factory
{
    /**
     * The name of the factory's corresponding model.
     *
     * @var string
     */
    protected $model = User::class;

    /**
     * Define the model's default state.
     *
     * @return array
     */
    public function definition()
    {
        return [
            'name' => $this->faker->name(),
            'email' => $this->faker->unique()->safeEmail(),
            'email_verified_at' => now(),
            'password' =>
'$2y$10$92IXUNpkjO0rOQ5byMi.Ye4oKoEa3Ro9llC/.og/at2.uheWG/igi', // password
            'remember_token' => Str::random(10),
        ];
    }

    /**
     * Indicate that the model's email address should be unverified.
     *
     * @return \Illuminate\Database\Eloquent\Factories\Factory
     */
    public function unverified()
    {
        return $this->state(function (array $attributes) {
            return [
```

```php
                'email_verified_at' => null,
        ];
    });
    }
}
```

## Seeding:

**DatabaseSeeder:**

```php
<?php

namespace Database\Seeders;

use Illuminate\Database\Seeder;

class DatabaseSeeder extends Seeder
{
    /**
     * Seed the application's database.
     *
     * @return void
     */
    public function run()
    {
        // \App\Models\User::factory(10)->create();
        $this->call(UserSeeder::class);
        $this->call(PostSeeder::class);
        $this->call(ViewesSeeder::class);
        $this->call(CommentsSeeder::class);
    }
}
```

**PostsSeeder:**

```php
<?php

namespace Database\Seeders;

use App\Models\Posts;
use Illuminate\Database\Seeder;
```

```php
use Illuminate\Support\Facades\DB;

class PostSeeder extends Seeder
{
    /**
     * Run the database seeds.
     *
     * @return void
     */
    public function run()
    {
        //
        Posts::factory(25)->create();


    }
}
```

**ViewsSeeder:**

```php
<?php

namespace Database\Seeders;

use App\Models\PostsViews;
use Illuminate\Database\Seeder;
use Illuminate\Support\Facades\DB;

class ViewesSeeder extends Seeder
{
    /**
     * Run the database seeds.
     *
     * @return void
     */
    public function run()
    {
        //
        PostsViews::factory(150)->create();

    }
}
```

**CommentsSeeder:**

```php
<?php

namespace Database\Seeders;

use App\Models\CommentsPost;
use Illuminate\Database\Seeder;

class CommentsSeeder extends Seeder
{
    /**
     * Run the database seeds.
     *
     * @return void
     */
    public function run()
    {
        //
        CommentsPost::factory(50)->create();
    }
}
```

**UserSeeder:**

```php
<?php

namespace Database\Seeders;

use Illuminate\Database\Seeder;
use Illuminate\Support\Facades\DB;

class UserSeeder extends Seeder
{
    /**
     * Run the database seeds.
     *
     * @return void
     */
    public function run()
    {
        //
        DB::table('users')->insert(
            array(
```

```php
            'name' => 'admin',
            'email' => 'admin@test.com',
            'password' =>'admin',
            'usertype' => 1
        )
    );


    DB::table('users')->insert(
        array(
            'name' => 'admin1',
            'email' => 'admin1@test.com',
            'password' =>'admin1',
            'usertype' => 1
        )
    );



    DB::table('users')->insert(
        array(
            'name' => 'nicole',
            'email' => 'nicole@test.com',
            'password' =>'1234',
            'usertype' => 2
        )
    );


    }
}
```